

IRC Current Sensing Resistors

ULR SERIES - 1% SMD METAL ELEMENT CURRENT SENSING RESISTORS

Features:

- Designed for current sense circuits in power electronics systems
- Power Ratings: 1W to 3W in 2512 chip size
- Resistance Range: 0.5mΩ to 10mΩ
- Low TCR and inductance
- Higher wattage devices feature PCB clearance gap to maximize thermal performance
- Tolerance: ±1%

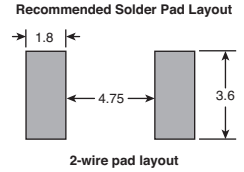
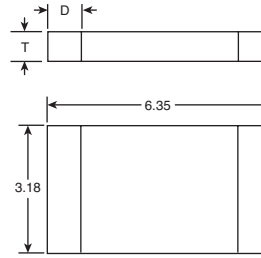


RoHS Compliant

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	IRC Part No.	Value (Ω)	Price Each					
			1	25	50	100	500	1000
1 Watt								
66-ULRB1R0005FLFSLT	ULRB12512R0005FLFSLT	0.0005	.73	.58	.52	.42	.37	.33
66-ULRB1R001FLFSLT	ULRB12512R001FLFSLT	0.001	.73	.58	.52	.42	.37	.33
66-ULRB1R0025FLFSLT	ULRB12512R0025FLFSLT	0.0025	.73	.58	.52	.42	.37	.33
66-ULRB1R003FLFSLT	ULRB12512R003FLFSLT	0.003	.73	.58	.52	.42	.37	.33
66-ULRB1R004FLFSLT	ULRB12512R004FLFSLT	0.004	.73	.58	.52	.42	.37	.33
66-ULRB1R005FLFSLT	ULRB12512R005FLFSLT	0.005	.49	.39	.35	.28	.25	.22
66-ULRB1R006FLFSLT	ULRB12512R006FLFSLT	0.006	.49	.39	.35	.28	.25	.22
66-ULRB1R007FLFSLT	ULRB12512R007FLFSLT	0.007	.49	.39	.35	.28	.25	.22
66-ULRB1R0075FLFSLT	ULRB12512R0075FLFSLT	0.0075	.49	.39	.35	.28	.25	.22
2 Watt								
66-ULRB2R0005FLFSLT	ULRB22512R0005FLFSLT	0.0005	.60	.48	.43	.34	.31	.27
66-ULRB2R001FLFSLT	ULRB22512R001FLFSLT	0.001	.88	.70	.63	.51	.45	.40
66-ULRB2R0015FLFSLT	ULRB22512R0015FLFSLT	0.0015	.60	.48	.43	.34	.31	.27
66-ULRB2R002FLFSLT	ULRB22512R002FLFSLT	0.002	.72	.58	.52	.41	.38	.33
66-ULRB2R007FLFSLT	ULRB22512R007FLFSLT	0.007	.60	.48	.43	.34	.31	.27
66-ULRB2R008FLFSLT	ULRB22512R008FLFSLT	0.008	.60	.48	.43	.34	.31	.27
66-ULRB2R010FLFSLT	ULRB22512R010FLFSLT	0.01	.60	.48	.43	.41	.39	.38
2.5 Watt								
66-ULRG25R0035FLFSLT	ULRG252512R0035FLFSLT	0.0035	.60	.48	.43	.34	.31	.27
66-ULRG25R004FLFSLT	ULRG252512R004FLFSLT	0.004	.60	.48	.43	.41	.39	.38
66-ULRG25R005FLFSLT	ULRG252512R005FLFSLT	0.005	.60	.48	.43	.41	.39	.38
66-ULRG25R006FLFSLT	ULRG252512R006FLFSLT	0.006	.60	.48	.43	.41	.39	.38
3 Watt								
66-ULRG3R0005FLFSLT	ULRG32512R0005FLFSLT	0.0005	.60	.48	.43	.34	.31	.27
66-ULRG3R001FLFSLT	ULRG32512R001FLFSLT	0.001	.60	.48	.43	.34	.31	.27
66-ULRG3R002FLFSLT	ULRG32512R002FLFSLT	0.002	.60	.48	.43	.34	.31	.27
66-ULRG3R0025FLFSLT	ULRG32512R0025FLFSLT	0.0025	.60	.48	.43	.34	.31	.27
66-ULRG3R003FLFSLT	ULRG32512R003FLFSLT	0.003	.60	.48	.43	.34	.31	.27

DIMENSIONS: mm



Coating	Resistance Value (mΩ)	DIMENSIONS: mm	
		T	D
Green	0.5	0.60±0.20	2.68±0.25
	0.75		2.48±0.25
	1 - 1.5		1.43±0.25
	2 - 3		1.18±0.25
	4		2.18±0.25
	5 - 6		1.93±0.25
	7		1.43±0.25
	8 - 20		1.18±0.25
Black	0.5	1.40±0.20	1.43±0.38
	0.75	1.0±0.20	
	1	0.80±0.20	
	1.5	0.65±0.20	
	2	0.50±0.20	
	2.5	1.0±0.20	
	3	0.70±0.20	
	4	0.60±0.20	
	5 - 6	0.50±0.20	
	6.5	0.45±0.20	
7	0.45±0.20		

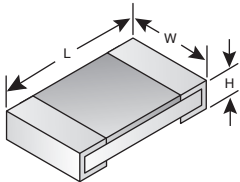
Current Sense

IRC

LR SERIES - 1% SMD CURRENT SENSE RESISTORS

Features:

- Resistance values down to .003ohms
- Leach resistant solder-plated cooper wrap-around termination
- Low inductance-less than 0.2nH



RoHS Compliant

Size	DIMENSIONS: in.		
	L	W	H
1206	.126 ± .012	.064 ± .008	.024 ± .004
2010	.206 ± .015	.104 ± .010	.029 ± .004
2512	.256 ± .015	.128 ± .010	.029 ± .004

MOUSER STOCK NO.	Mfr.	Mfr. Part Number	Ω Value	Watt	Case Size	Tol.	Price Each			
							1	100	500	1000
66-LRF1206-LF-R012-F		1/2	1206	1%	.60	.52	.46	.34		
66-LRF1206-LF-R015-F		1/2	1206	1%	.60	.52	.46	.34		
66-LRF1206-LF-R020-F		1/2	1206	1%	.60	.52	.46	.34		
66-LRF1206-LF-R025-F		1/2	1206	1%	.60	.52	.46	.34		
66-LR1206-LF-R030-F		1/2	1206	1%	.41	.311	.287	.262		
66-LR1206-LF-R033-F		1/2	1206	1%	.41	.311	.287	.262		
66-LR1206-LF-R040-F		1/2	1206	1%	.41	.311	.287	.262		
66-LR1206-LF-R050-F		1/2	1206	1%	.41	.311	.287	.262		
66-LR1206-LF-R060-F		1/2	1206	1%	.41	.311	.287	.262		
66-LR1206-LF-R080-F		1/2	1206	1%	.49	.41	.377	.27		
66-LR1206-LF-R100-F		1/2	1206	1%	.42	.316	.289	.263		
66-LR1206-LF-R150-F		1/2	1206	1%	.42	.316	.289	.263		
66-LRF2010-LF-R010-F		1	2010	1%	.68	.58	.52	.38		
66-LRF2010-LF-R012-F		1	2010	1%	.68	.58	.52	.38		
66-LRF2010-LF-R015-F		1	2010	1%	.68	.58	.52	.38		

MOUSER STOCK NO.		Ω Value	Watt	Case Size	Tol.	Price Each			
Mfr.	Mfr. Part Number					1	100	500	1000
66-LRF2010-LF-R018-F		0.018	1	2010	1%	.68	.58	.52	.38
66-LRF2010-LF-R020-F		0.02	1	2010	1%	.68	.58	.52	.38
66-LRF2010-LF-R025-F		0.025	1	2010	1%	.68	.58	.52	.38
66-LR2010-LF-R030-F		0.03	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R033-F		0.033	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R035-F		0.035	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R040-F		0.04	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R050-F		0.05	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R058-F		0.058	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R068-F		0.068	1	2010	1%	.60	.50	.44	.31
66-LR2010-LF-R075-F		0.075	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R100-F		0.1	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R120-F		0.12	1	2010	1%	.56	.47	.42	.29
66-LR2010-LF-R150-F		0.15	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R180-F		0.18	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R200-F		0.2	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R250-F		0.25	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R270-F		0.27	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R300-F		0.3	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R470-F		0.47	1	2010	1%	.54	.45	.40	.28
66-LR2010-LF-R500-F		0.5	1	2010	1%	.54	.45	.40	.28
66-LRF2512-LF-R010-F		0.01	2	2512	1%	.70	.60	.53	.39
66-LRF2512-LF-R012-F		0.012	2	2512	1%	.70	.60	.53	.39
66-LRF2512-LF-R015-F		0.015	2	2512	1%	.70	.60	.53	.39
66-LRF2512-LF-R020-F		0.02	2	2512	1%	.70	.60	.53	.39
66-LRF2512-LF-R024-F		0.024	2	2512	1%	.70	.60	.53	.39
66-LRF2512-LF-R025-F		0.025	2	2512	1%	.70	.60	.53	.39
66-LR2512-LF-R027-F		0.027	2	2512	1%	.58	.44	.40	.36
66-LR2512-LF-R030-F		0.03	2	2512	1%	.58	.44	.40	.36
66-LR2512-LF-R040-F		0.04	2	2512	1%	.58	.44	.40	.36
66-LR2512-LF-R050-F		0.05	2	2512	1%	.58	.44	.40	.36
66-LR2512-LF-R056-F		0.056	2	2512	1%	.58	.44	.40	.36
66-LR2512-LF-R062-F		0.062	2	2512	1%	.58	.44	.40	.36
66-LR2512-LF-R068-F		0.068	2	2512	1%	.58	.44	.40	.36
66-LR2512-LF-R075-F		0.075	2	2512	1%	.58	.44	.40	.36
66-LR2512-LF-R080-F		0.08	2	2512	1%	.58	.44	.40	.36
66-LR2512-LF-R100-F		0.1	2	2512	1%	.55	.41	.37	.34
66-LR2512-LF-R120-F		0.12	2	2512	1%	.55	.41	.37	.34
66-LR2512-LF-R140-F		0.14	2	2512	1%	.55	.41	.37	.34
66-LR2512-LF-R150-F		0.15	2	2512	1%	.55	.41	.37	.34
66-LR2512-LF-R200-F		0.2	2	2512	1%	.55	.41	.37	.34
66-LR2512-LF-R220-F		0.22	2	2512	1%	.55	.41	.37	.34
66-LR2512-LF-R330-F		0.33	2	2512	1%	.55	.41	.37	.34
66-LR2512-LF-R470-F		0.47	2	2512	1%	.55	.41	.37	.34
66-LR2512-LF-R500-F		0.5	2	2512	1%	.55	.41	.37	.34